What Is Claimed Is:

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- 1. A mutein of human basic fibroblast growth factor, or a biologically active peptide thereof, comprising the substitution of a neutral and/or hydrophobic amino acid for one or more of the following:
 - (a) Glutamate 89; or
 - (b) Aspartate 101; or
 - (c) Leucine 137.
- 2. The mutein of claim 1 which comprises the substitution of a hydrophobic amino acid for Glu 89.
- 3. The mutein of claim 1 which comprises the substitution of a hydrophobic amino acid for Asp ¹⁰¹.
 - 4. The mutein of claim 1 which comprises the substitution of a hydrophobic amino acid for Leu ¹³⁷.
 - 5. The mutein of claim 1 which comprises the substitution of a neutral amino acid for Glu 89.
 - 6. The mutein of claim 1 which comprises the substitution of a neutral amino acid for Asp 101.
 - 7. The mutein of claim 1 which comprises the substitution of a neutral amino acid for Leu 137.
 - 8. The mutein of claim 1 wherein a neutral amino acid is defined as alanine and a hydrophobic amino acid is defined as tyrosine.
 - 9. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 89].

- 10. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 101].
- 11. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 137].
- 12. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 89, 101].

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- 13. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 89, 137].
- 14. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 101, 137].
 - 15. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 89, 101, 137].
 - 16. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 89].
- 17. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 101].
 - 18. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr ¹³⁷].
- 19. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 89, 101].

- 20. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr ^{89, 137}].
- 21. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 101, 137].
- 5 22. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 89, 101, 137].
 - 23. A polynucleotide encoding the mutein of claim 1.
 - 24. The polynucleotide of claim 23 which is DNA.
 - 25. The polynucleotide of claim 23 which is genomic DNA.
 - 26. The polynucleotide of claim 23 which is a cDNA.
 - 27. The polynucleotide of claim 23 which is RNA.
 - 28. A vector containing the DNA of claim 25.

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- 29. A vector containing the DNA of claim 26.
- 30. A vector containing the RNA of claim 27.
- 31. A host cell comprising the vector of claim 28.
- 32. A host cell comprising the vector of claim 29.
- 33. A host cell comprising the vector of claim 30.
- 34. A process for producing a polypeptide comprising expressing from the host cell of claim 32 the polypeptide encoded by said DNA.

	35.	A prod	cess for producing a polypeptide comprising expressing from
	the host cell o		33 the polypeptide encoded by said DNA.
	36.	A pro	cess for producing the vector of claim 28 which comprises:
		(a)	inserting the polynucleotide of claim 25 into the vector; and
5		(b)	selecting and propagating said vector in a host cell.
	37.	A process for producing the vector of claim 29 which comprises:	
		(a)	inserting the polynucleotide of claim 26 into the vector; and
		(b)	selecting and propagating said vector in a host cell.
	38.	A pro	ocess for producing the vector of claim 30 which comprises:
10	50.	(a)	creating a recombinant RNA molecule containing the RNA
	sequence of claim 27; and		
	sequence of	(b)	selecting and propagating said vector in a host cell.
	39.	A m	ethod of stimulating cell division which comprises:
	37.	(a)	contacting cells with an effective amount of the mutein of
15.7.5	claim 1 in v	, ,	
13		(b)	contacting cells with an effective amount of the mutein of
	claim 1 in v	• •	
	40.	Δn	harmacologic composition useful for stimulating cell division
	comprising		
20	comprising	(a)	An effective amount of the human basic fibroblast growth
20	factor mutein of claim 1; and		
	factor mute	(b)	and the state of t
	41.	۸.	method of healing a wound comprising contacting said wound
•			amount of the mutein of claim 1.
	with an en	CCHVC	militarit of the materia of trans-

- 42. A method of treating ischemia comprising contacting cells with an effective amount of the mutein of claim 1.
- 43. A method of treating peripheral vascular disease comprising contacting cells with an effective amount of the mutein of claim 1.
- 44. A method of treating a neural injury comprising contacting cells with an effective amount of the mutein of claim 1.
- 45. A method of treating a gastric ulcer comprising contacting cells with an effective amount of the mutein of claim 1.
- 46. A method of treating a duodenal ulcer comprising contacting cells with an effective amount of the mutein of claim 1.

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47. A method of treating heart disease comprising contacting cells with an effective amount of the mutein of claim 1.